



# Terminology

Cybersecurity

By: Pr MA. RIAHLA

# Terminology

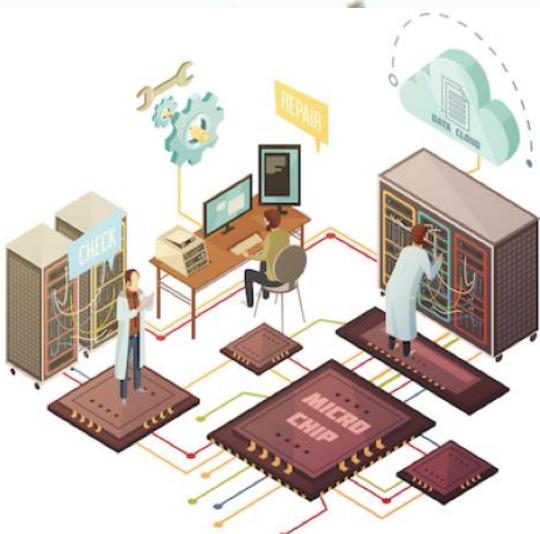
- Actif → Asset : عنصر مهم
- Vulnérabilité → Vulnerability: هشاشة
- Incident → Incident: حادث
- Menace → Threat : تهديد
- Risque → Risk: مخاطرة
- Attaque → Attack : هجوم
- Contre-mesures → Countermeasures : إجراء مضاد

# Assets

# Assets

**Anything that has value to the organization**

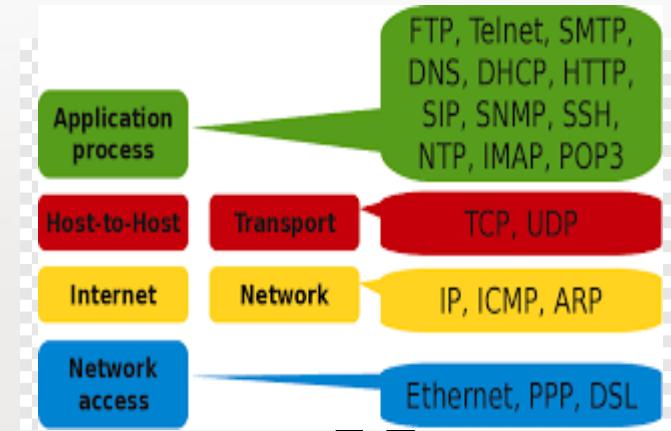
Assets can be:



**Infrastructures**



**Information**



**Services and protocols**

# Vulnerability

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# Vulnerability

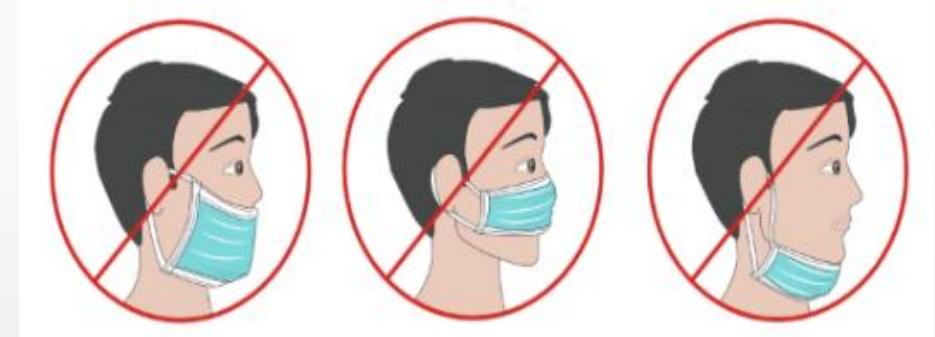
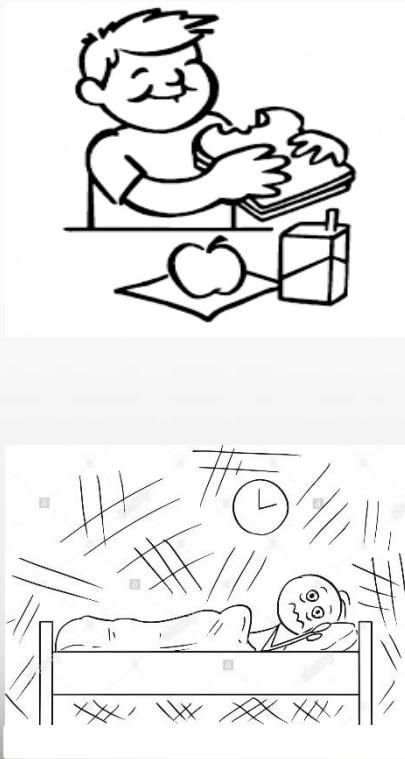
A **weakness** in an asset



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**A weakness that can be exploited by a threat.**

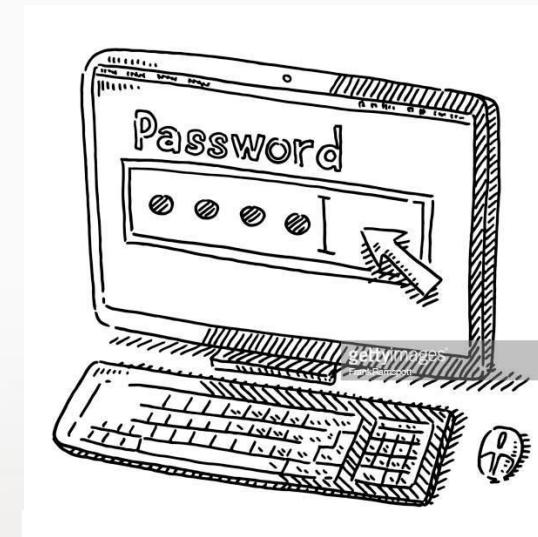
# Vulnerability



# Vulnerability



No antivirus or  
antivirus without  
updates.



No password or  
weak password.

# Vulnerability

We're talking about pentesting: a field focused on studying vulnerabilities



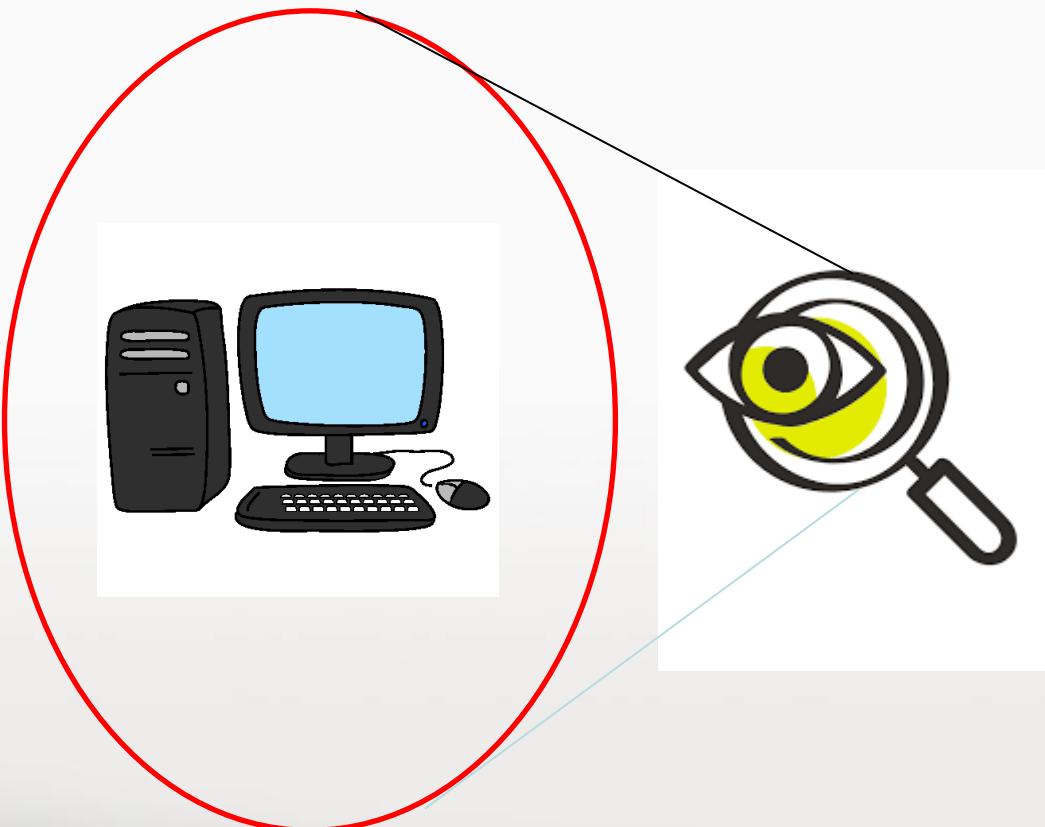
Vul 1



Vul 2



Vul n



# Incident

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# Incident

A malfunction reported by an end user.



# Incident



# Security threat.

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# Threat

- A potential cause of an incident: anything that can exploit a vulnerability on an asset to breach security.
- It could lead to damage to an asset if this threat materializes.



# Threat



## Pas d'antivirus ou Antivirus sans MAJ

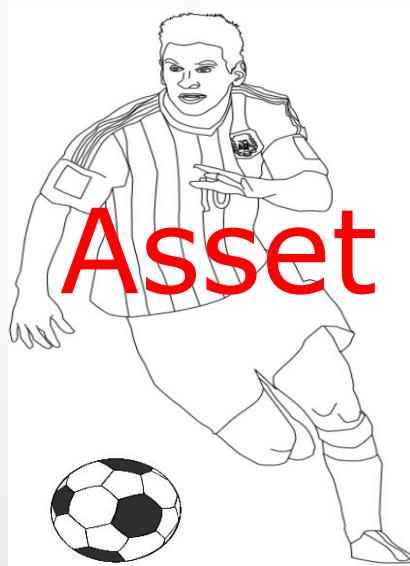


# **Risk**

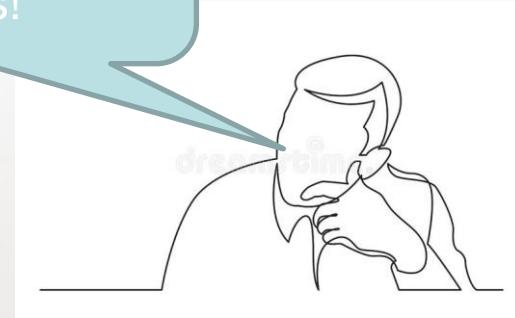
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# Risk

**The probability of an IT threat becoming a real event leading to a loss.**



This player doesn't eat organic, he risks injuries!



$$Risk = \text{threat} \times \text{Vulnerability} \times \text{Asset}$$

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# Attack

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# Attack

A deliberate and malicious action aimed at causing damage to **assets**. It is the realization of a **threat** and requires the exploitation of a **vulnerability**



# Countermeasure

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# Countermeasure

A defensive cybersecurity measure in the form of a technique, device, or procedure, aimed at preventing an **incident** or countering an **attack** that could compromise **assets**.

Preventive

Corrective

# Countermeasure

Preventive



Corrective



# Countermeasure

Préventive



Update before an incident occurs



Corrective



Maintenance

**"There you have it! You've  
understood everything."**



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